



WEB ACCESS: <http://www.yorkville.com>



SERVICE MANUAL

TRAYNOR YCS90

MODEL TYPE: YS1067

WORLD HEADQUARTERS CANADA

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Pickering, Ontario
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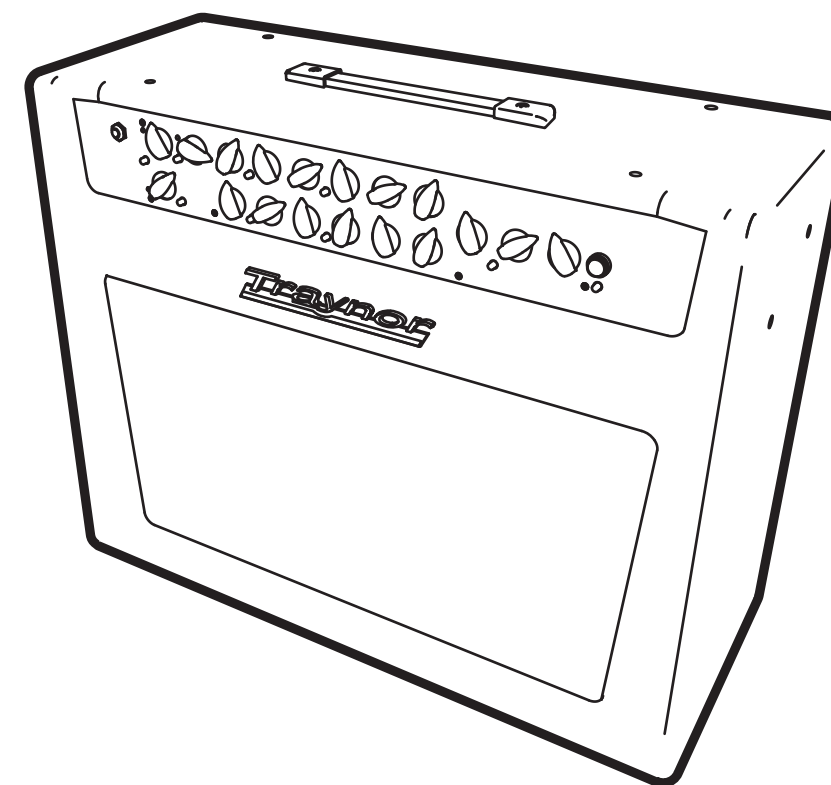
U.S.A.

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Niagara Falls, New York
14305 USA

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Quality and Innovation Since 1963
Printed in Canada



IMPORTANT SAFETY INSTRUCTIONS



This lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Ce symbole d'éclair avec tête de flèche dans un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'un « voltage dangereux » non-isolé à proximité de l'enceinte du produit qui pourrait être d'ampleur suffisante pour présenter un risque de choc électrique.



CAUTION AVIS

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

**RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR**



S2125A



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'instructions importantes dans la littérature accompagnant l'appareil en ce qui concerne l'opération et la maintenance de cet appareil.

FOLLOW ALL INSTRUCTIONS

**Instructions pertaining to a risk of fire,
electric shock, or injury to a person**

**CAUTION: TO REDUCE THE RISK OF ELECTRIC
SHOCK, DO NOT REMOVE COVER (OR BACK).**

NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

THIS DEVICE IS FOR INDOOR USE ONLY!

SUIVEZ TOUTES LES INSTRUCTIONS

**Instructions relatives au risque de feu,
choc électrique, ou blessures aux personnes**

**AVIS: AFIN DE REDUIRE LES RISQUE DE CHOC ELECTRIQUE,
N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE)**

NE CONTIENT AUCUNE PIECE REPARABLE PAR L'UTILISATEUR.

CONSULTEZ UN TECHNICIEN QUALIFIE POUR L'ENTRETIEN

CE PRODUIT EST POUR L'USAGE À L'INTÉRIEUR SEULEMENT

Read Instructions: The Owner's Manual should be read and understood before operation of your unit. Please, save these instructions for future reference and heed all warnings.

Clean only with dry cloth.

Packaging: Keep the box and packaging materials, in case the unit needs to be returned for service.

Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. *Do not use this apparatus near water!*

Warning: When using electric products, basic precautions should always be followed, including the following:

Power Sources

Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated. An apparatus with CLASS I construction shall be connected to a Mains socket outlet with a protective earthing ground. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Hazards

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. Only use attachments/accessories specified by the manufacturer

Note: Prolonged use of headphones at a high volume may cause health damage on your ears.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

Ensure that proper ventilation is provided around the appliance. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

Power Cord

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. The AC supply cord should be routed so that it is unlikely that it will be damaged. Protect the power cord from being walked on or pinched particularly at plugs. If the AC supply cord is damaged DO NOT OPERATE THE UNIT. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle. The mains plug of the power supply cord shall remain readily operable.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Service

The unit should be serviced only by qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Veillez Lire le Manuel: Il contient des informations qui devraient étre comprises avant l'opération de votre appareil. Conservez. Gardez S.V.P. ces instructions pour consultations ultérieures et observez tous les avertissements.

Nettoyez seulement avec le tissu sec.

Emballage: Conservez la boîte au cas où l'appareil devait étre retourner pour réparation.

Avertissement: Pour réduire le risque de feu ou la décharge électrique, n'exposez pas cet appareil à la pluie ou à l'humidité. *N'utilisez pas cet appareil près de l'eau!*

Attention: Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

Alimentation

L'appareil ne doit étre branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent étre prises afin d'éviter que le système de mise à la terre de l'appareil ne soit désengagé. Un appareil construit selon les normes de CLASS I devrait étre raccordé à une prise murale d'alimentation avec connexion intacte de mise à la masse. Lorsqu'une prise de branchement ou un coupleur d'appareils est utilisée comme dispositif de débranchement, ce dispositif de débranchement devra demeurer pleinement fonctionnel avec raccordement à la masse.

Risque

Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utilisez seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant. Utilisez seulement les attachments/accessoires indiqués par le fabricant

Note: L'utilisation prolongée des écouteurs à un volume élevé peut avoir des conséquences néfastes sur la santé sur vos oreilles. .

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appareil ne doit pas étre exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit étre placé sur l'appareil.

Assurez que l'appareil est fourni de la propre ventilation. Ne procédez pas à l'installation près de source de chaleur tels que radiateurs, registre de chaleur, fours ou autres appareils (incluant les amplificateurs) qui produisent de la chaleur.

Les dispositifs marqués d'une symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connexion extérieure doivent étre effectivés par un opérateur formé ou en utilisant des cordons déjà préparés.

Cordon d'Alimentation

Ne pas enlever le dispositif de sécurité sur la prise polarisée ou la prise avec tige de mise à la masse du cordon d'alimentation. Une prise polarisée dispose de deux lames dont une plus large que l'autre. Une prise avec tige de mise à la masse dispose de deux lames en plus d'une troisième tige qui connecte à la masse. La lame plus large ou la tige de mise à la masse est prévu pour votre sécurité. La prise murale est désuète si elle n'est pas conçue pour accepter ce type de prise avec dispositif de sécurité. Dans ce cas, contactez un électricien pour faire remplacer la prise murale. Évitez d'endommager le cordon d'alimentation. Protégez le cordon d'alimentation. Assurez-vous qu'on ne marche pas dessus et qu'on ne le pince pas en particulier aux prises. N'UTILISEZ PAS L'APPAREIL si le cordon d'alimentation est endommagé. Pour débrancher complètement cet appareil de l'alimentation CA principale, déconnectez le cordon d'alimentation de la prise d'alimentation murale. Le cordon d'alimentation du bloc d'alimentation de l'appareil doit demeurer pleinement fonctionnel.

Débranchez cet appareil durant les orages ou si inutilisé pendant de longues périodes.

Service

Consultez un technicien qualifié pour l'entretien de votre appareil. L'entretien est nécessaire quand l'appareil a été endommagé de quelque façon que se soit. Par exemple si le cordon d'alimentation ou la prise du cordon sont endommagés, si il y a eu du liquide qui a été renversé à l'intérieur ou des objets sont tombés dans l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, si il ne fonctionne pas normalement, ou a été échappé.

Specifications

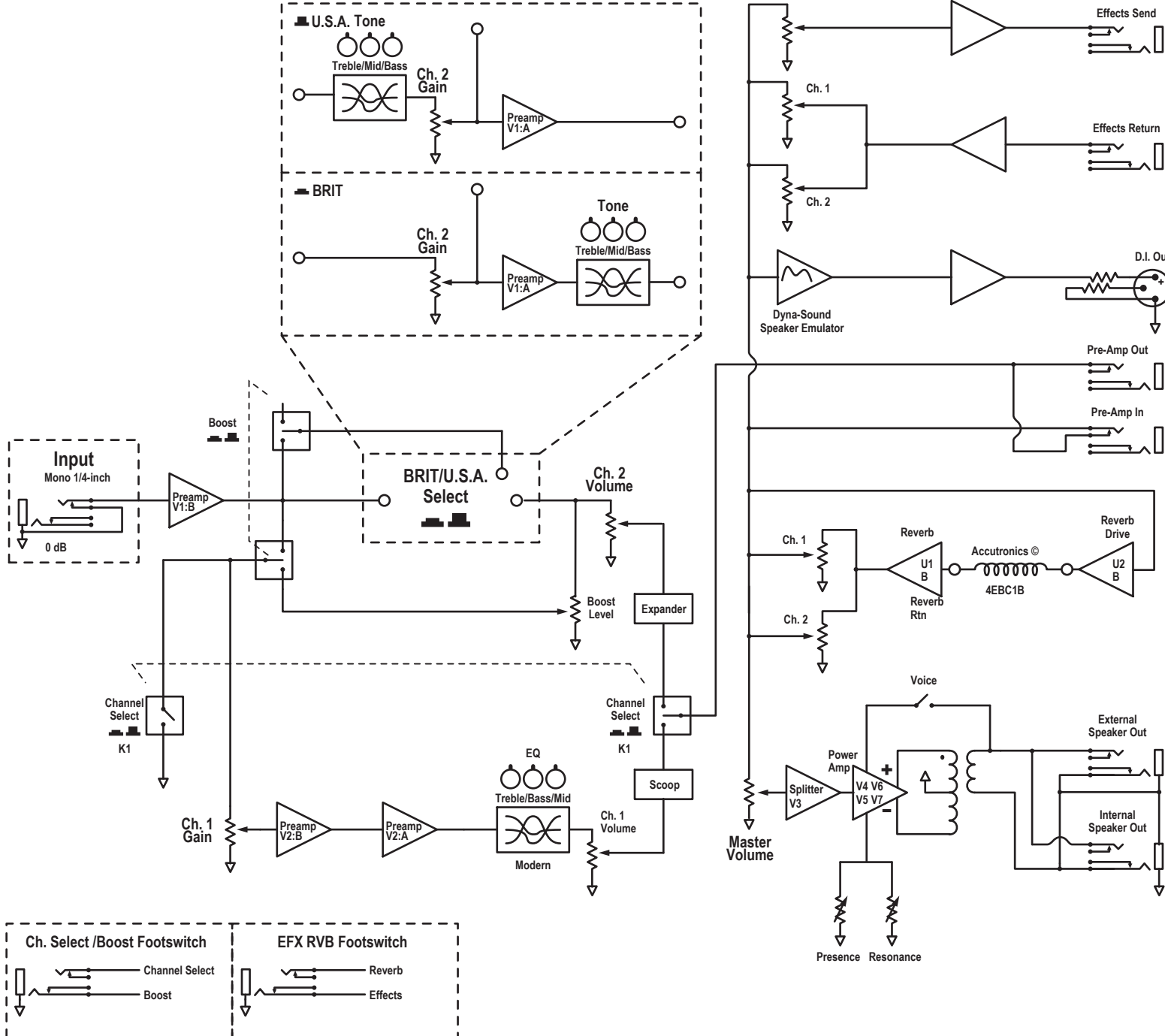
Model:	YCS50 / YCS50H / YCS90
Type:	Combo / Head / Combo Guitar Amplifiers
Cabinet Impedance (ohms):	8 / na / 8
Power @ min. impedance (Watts):	50 / 50 / 90
Minimum Impedance (ohms):	4 ohms on all models
Burst Power - 2 cycle:	60 / 60 / 110
Speaker Configuration - LF (Size / Power):	1 12-inch 60 watts / n.a. / 2 12-inch 120 watts
Input Channels:	1
Channel 1 - inputs:	1-1/4-inch shared with channel 2
Channel 1 - controls:	Gain, Boost Level, Volume, Treble, Mid, Bass, Reverb, Effects Return
Channel 1 - switches:	Boost, Modern, Scoop
Channel 2 - inputs:	1-1/4-inch shared with channel 1
Channel 2 - controls:	Gain, Volume, Treble, Mid, Bass, Reverb, Effects Return
Channel 2 - switches:	Bright, USA/Brit, Expander
Channel Switching:	2 Channels, Boost on Channel 1, Footswitchable
Master Volume Control:	Yes
Main Tone Controls:	Presence, Resonance, Voice
Master Outputs:	Preamp Out (TRS), D.I. Out (XLR), Effects Send with Control (TRS)
Line Out (type / configuration):	Preamp Out (TRS), D.I. Out (XLR), Effects Send with Control (TRS)
Line Out Sensitivity (Vrms):	300 mV
Effects Volume:	Master send, dual returns
Effects Loop / Location:	Rear
Effects Footswitch / Function:	Reverb and Effects Return Footswitchable
Effects Return Sensitivity (Vrms):	300 mV
Internal Reverb / Effects:	Accutronics Dual Spring Long Tank
LED Indicators:	Ch1, Ch2, Boost, Power/Standby
Protection:	Mains Fuse
External speaker output / location:	1 (rear panel)
Other Features:	Class A low power mode 15/15/25 Watts
Dimensions (DWH, inches):	10.5x25x21.5 / 10x27x11 / 10.5x27.5x21.5
Dimensions (DWH, cm):	27x64x55 / 25x69x28 / 27x70x55
Weight (lbs / kg):	48lbs./22kg / 38lbs./17kg / 51lbs./23kg

Block Diagram for YCS50/50H/YCS90

DESIGNED AND MANUFACTURED BY YORKVILLE SOUND

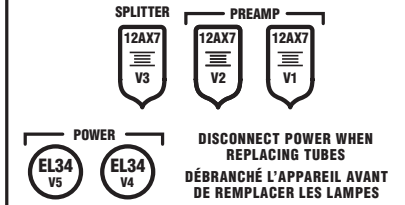
MODEL TYPE: YS1064

MODEL TYPE: YS1067



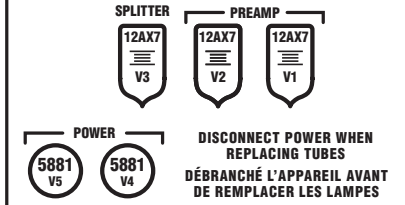
YCS50H

YCS50H Tube Configuration

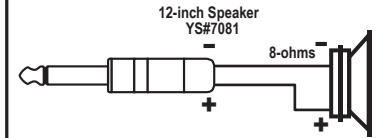


YCS50

YCS50 Tube Configuration

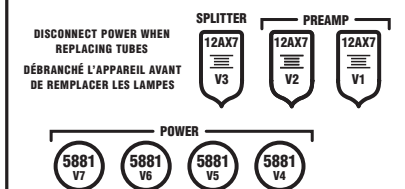


YCS50 Speaker Configuration

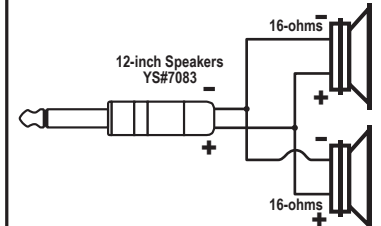


YCS90

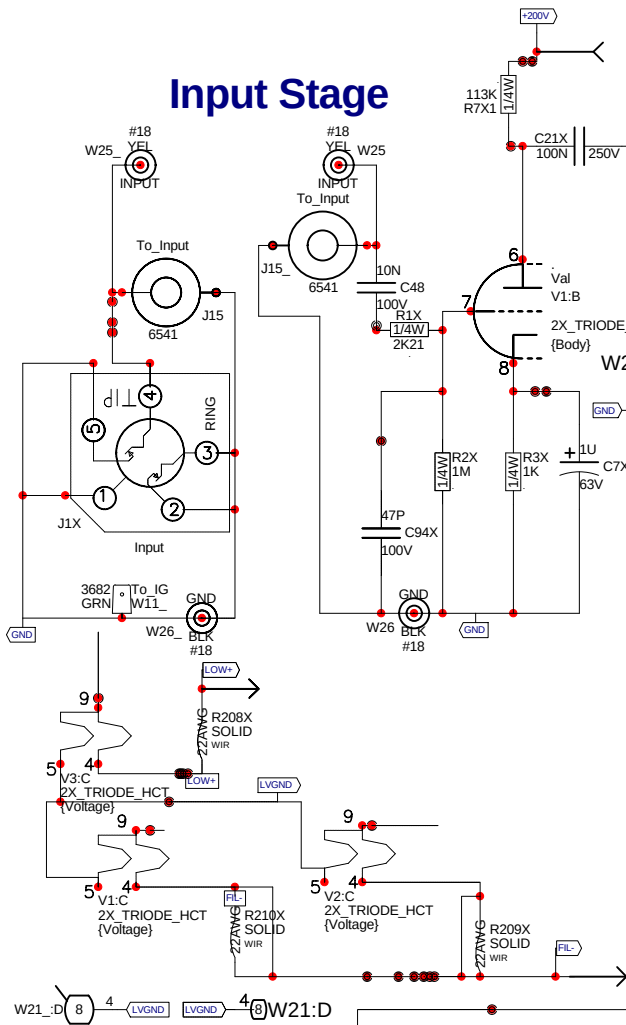
YCS90 Tube Configuration



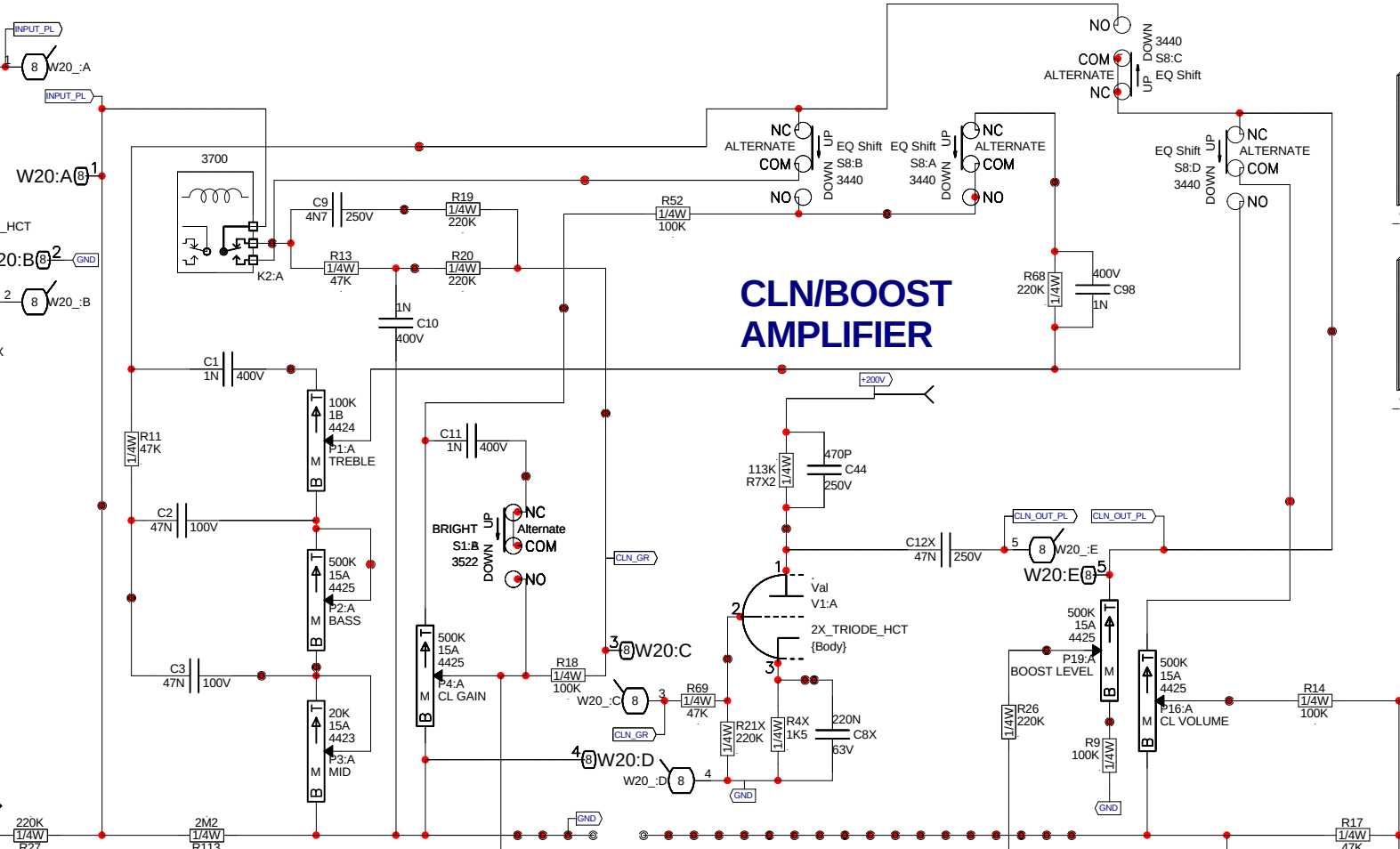
YCS90 Speaker Configuration



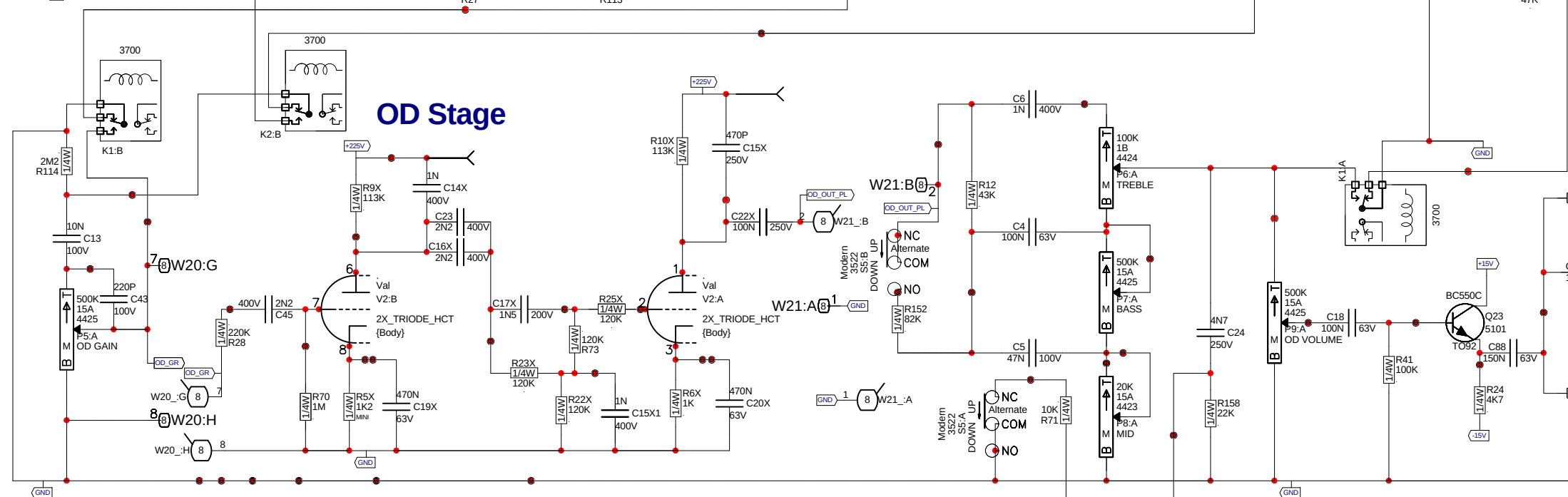
Input Stage



CLN/BOOST AMPLIFIER

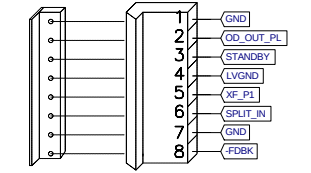
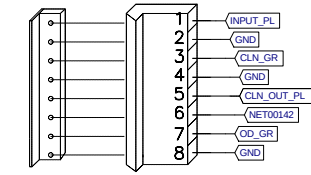


OD Stage

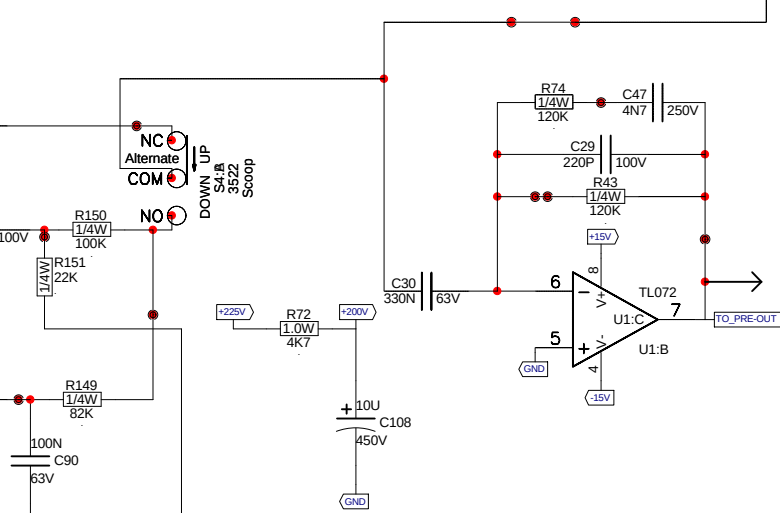
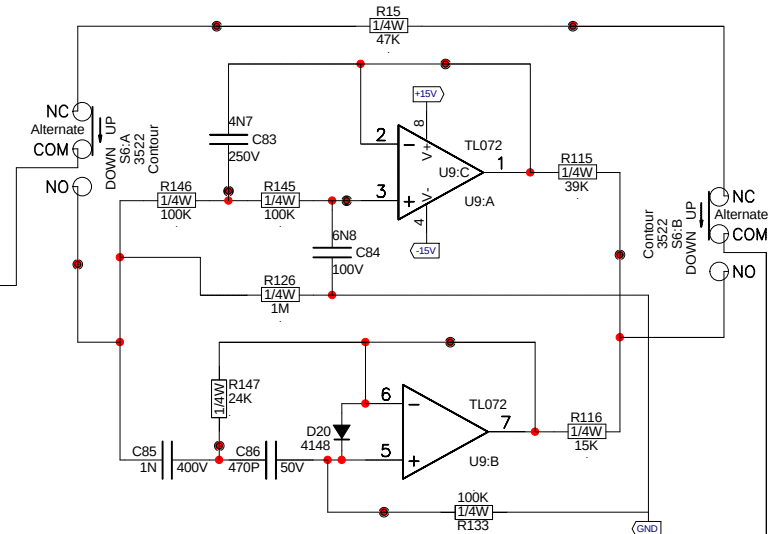
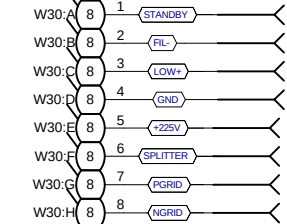


Preamp Headers

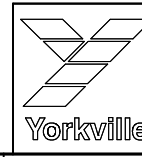
W20_F 8 6 NET00142 NET00142 6 W20:F



To Power Amp



To_PowerSupply
-15V 4 W5:D
-15V 3 W5:C
LVGND 2 W5:B
LVGND 1 W5:A

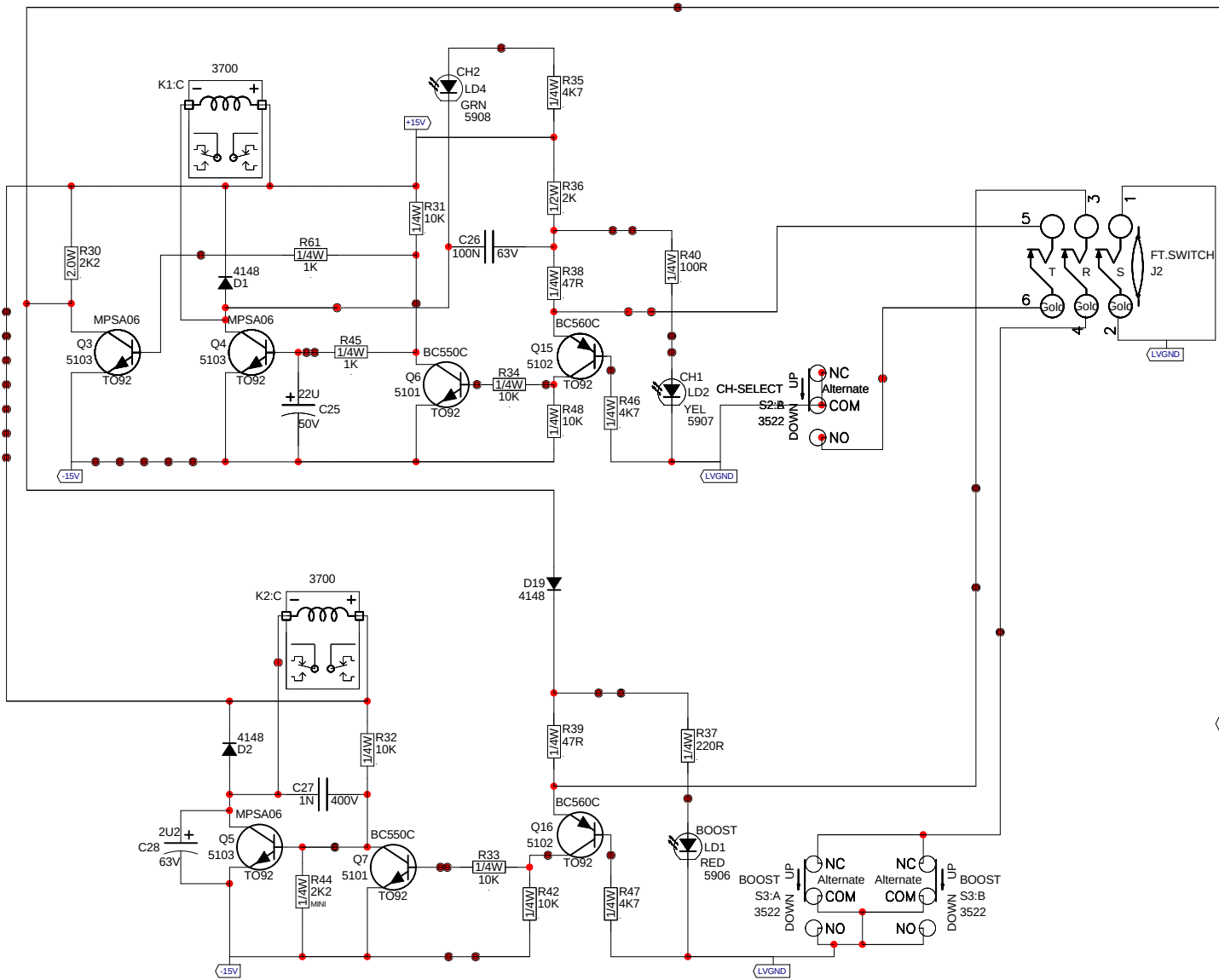


Product **YCS50/90 Preamp**

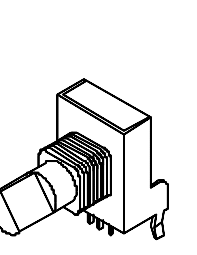
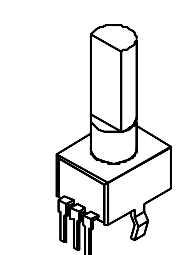
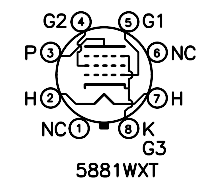
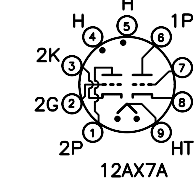
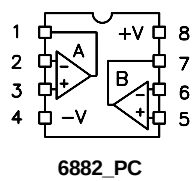
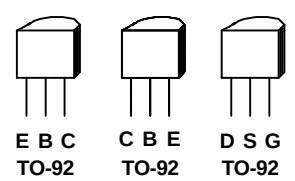
Gain/EQ PCB# M1294 Sheet 1 of 4

Date: Thu Dec 06, 2007 Rev: 1.01 YsType: YS1067.4

Filename: M1294V200sch.sch2002

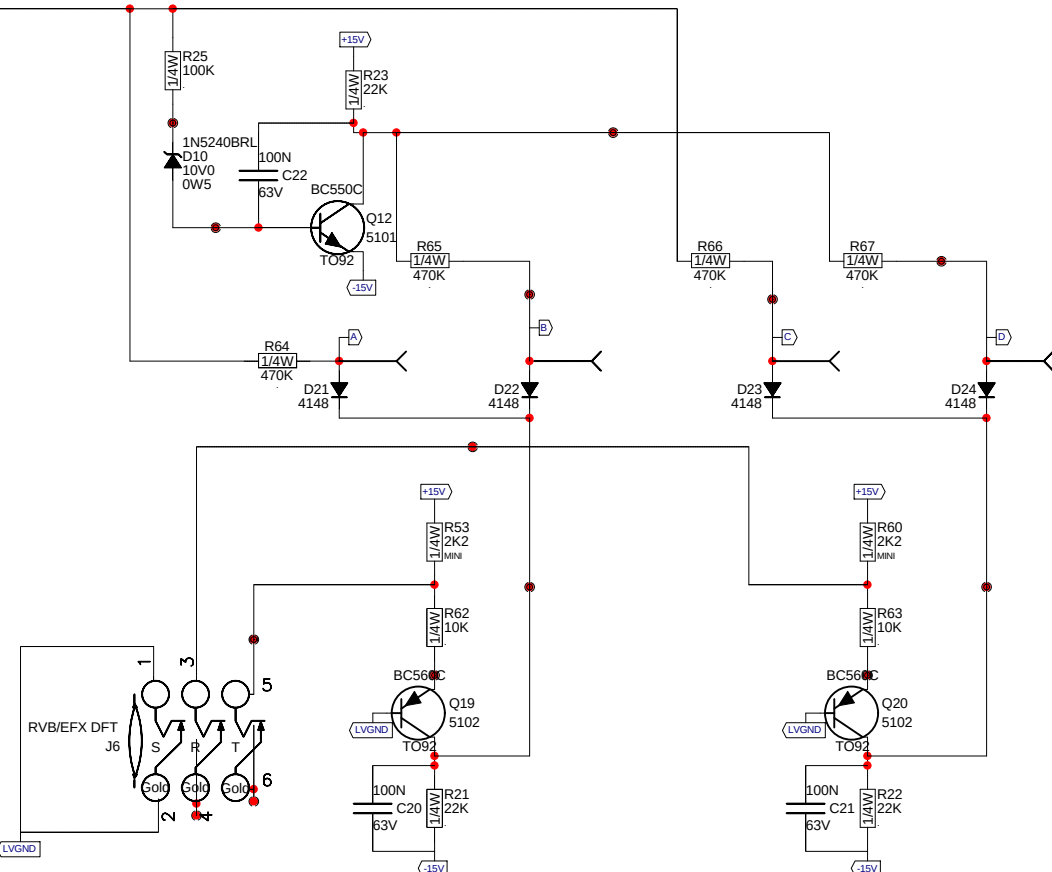


2N5401
2N5551
MP5A06
MP5A13
MP5A43
MP5A56
MP5A63



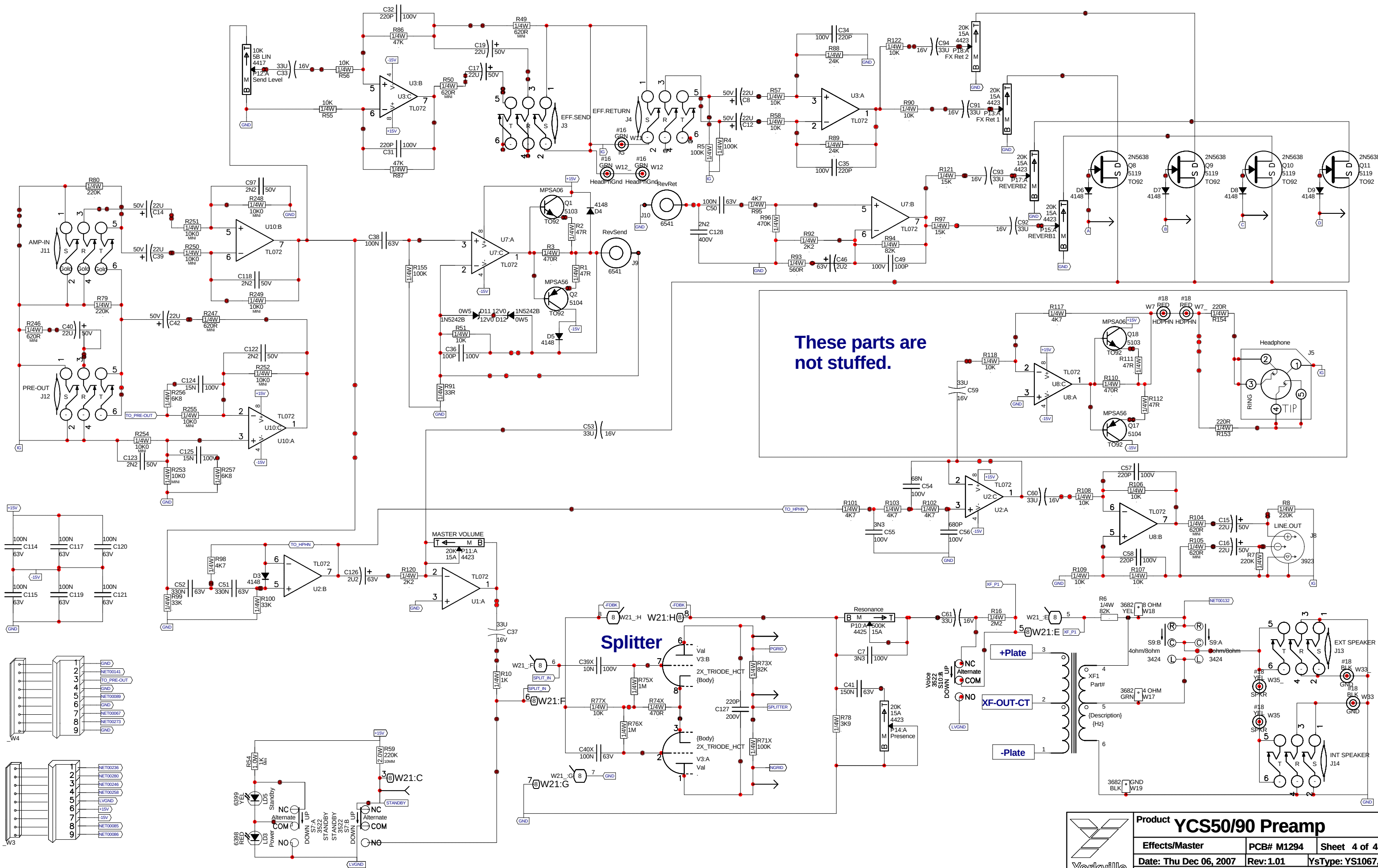
"STYLE_P32"

"STYLE_P28"



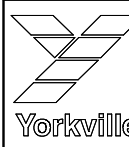
Potlist				
MODEL(S):- YCS50/90				
REF	FUNCTION	PART#	NOB	{NEW}
P1	TREBLE	4424	8431	N
P2	BASS	4425	8431	N
P3	MID	4423	8431	N
P4	CL GAIN	4425	8431	N
P5	OD GAIN	4425	8431	N
P6	TREBLE	4424	8431	N
P7	BASS	4425	8431	N
P8	MID	4423	8431	N
P9	OD VOLUME	4425	8431	N
P10	Resonance	4425	8431	N
P11	MASTER VOLUME	4423	8431	N
P12	Send Level	4417	8431	N
P13	FX Ret 1	4423	8431	N
P14	Presence	4423	8431	N
P15	REVERB1	4423	8431	N
P16	CL VOLUME	4425	8431	N
P17	REVERB2	4423	8431	N
P18	FX Ret 2	4423	8431	N
P19	BOOST LEVEL	4425	8431	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N

M1294 PCB_DATABASE_HISTORY			
MODEL(S):-		MODEL	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	2007/08/27	1.00	RELEASED FOR PRODUCTION
2	2007/12/10	2.00	REVISED BOARD PER PC#7333
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N



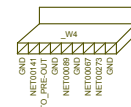
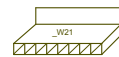
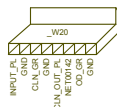
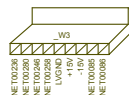
These parts are not stuffed.

Splitter



BOARD TO BE DRILLED 2 UP WITH A STEP AND REPEAT DISTANCE OF X 0.000 AND Y8.000 IN. ALL PANEL AND BOARD HOLES TO BE REPEATED

BREAK IN TWO ALONG THE ZIPPER IN THE AREA INDICATED, BEFORE SCREENING AND ETCHING.



SEE LAYOUT DOCUMENTATION



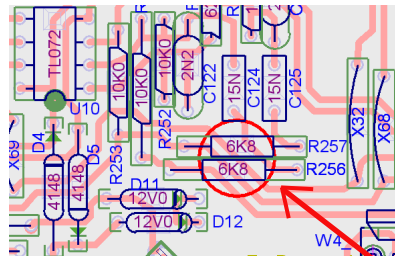
SEE LAYOUT DIAGRAM



PRODUCTION NOTES

M1294 YCS50 / 90

1. DO NOT STUFF the headphone circuit parts that have a large 'X' through them. The DNS parts also have X shown on the actual board on the silkscreen legend.
2. Lay C126 flat before RTVing.
3. Bend C21X as flat as possible towards components R210X and X34 before RTVing.
4. Wave solder in the indicated direction.
5. YCS90 ONLY
T&R, Remove R256 and R257.



PC# 7446
ONLY FOR YCS90

T&R REMOVE R256 AND R257



SEE LAYOUT DIAGRAM



M1294			
MODEL(S):- YCS50/90			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	2007/02/08	1.00	PC#7287, replace input eyelets with RCA jacks #6541
2	.	.	PC#7298, Change R94 from 180k to 82k, #4837 and
3	.	.	Change R91 from 47R to 33R, #4816
4	.	1.01	PC#7336, CHANGE R74 FROM 47K #4834 TO 120K, #4851
5	.	.	CHANGE R98 FROM 2K2, #4847 TO 4K7, #4827
6	.	.	CHANGE R100 FROM 27K, #4833 TO 33K, #4840
7	.	.	CUT R91 CONNECTION AND RECONNECT IT TO W30 F4
8	2007/12/10	2.00	REVISED BOARD PER PC#7333
9	.	.	PC#7446, ONLY FOR YCS90, T&R WILL REMOVE TWO
10	.	.	RESISTORS, R256 AND R257.
11	D	V	N
12	D	V	N
13	D	V	N
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

M1294 DRILL HISTORY			
MODEL(S):- YCS50/90			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	2007/08/08	1.00	RELEASED FOR PRODUCTION
2	2007/12/10	2.00	REVISED BOARD PER PC#7333
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N

Potlist				
MODEL(S):- YCS50/90				
REF	FUNCTION	PART#	KNOB	{NEW}
P1	TREBLE	4424	8431	N
P2	BASS	4425	8431	N
P3	MID	4423	8431	N
P4	CL GAIN	4425	8431	N
P5	OD GAIN	4425	8431	N
P6	TREBLE	4424	8431	N
P7	BASS	4425	8431	N
P8	MID	4423	8431	N
P9	OD VOLUME	4425	8431	N
P10	Resonance	4425	8431	N
P11	MASTER VOLUME	4423	8431	N
P12	Send Level	4417	8431	N
P13	FX Ret 1	4423	8431	N
P14	Presence	4423	8431	N
P15	REVERB1	4423	8431	N
P16	CL VOLUME	4425	8431	N
P17	REVERB2	4423	8431	N
P18	FX Ret 2	4423	8431	N
P19	BOOST LEVEL	4425	8431	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N

PIN CONFIGURATION

2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63



E B C
TO-92

BC550C
BC560C

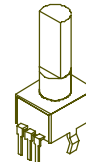


C B E
TO-92

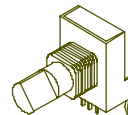
J109
2N5638



D S G
TO-92



"STYLE_P32"



"STYLE_P28"

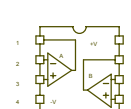
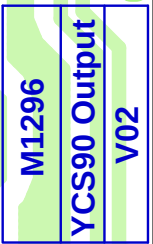


Diagram illustrating the coordinate system for the VCD (Vertical Curve Data) input. A green arrow points upwards, indicating the vertical axis. The text "INSERT ORIGIN" is shown, indicating the starting point of the vertical curve. The text "LONG AXIS" is shown, indicating the horizontal axis.





SEE LAYOUT DIAGRAM

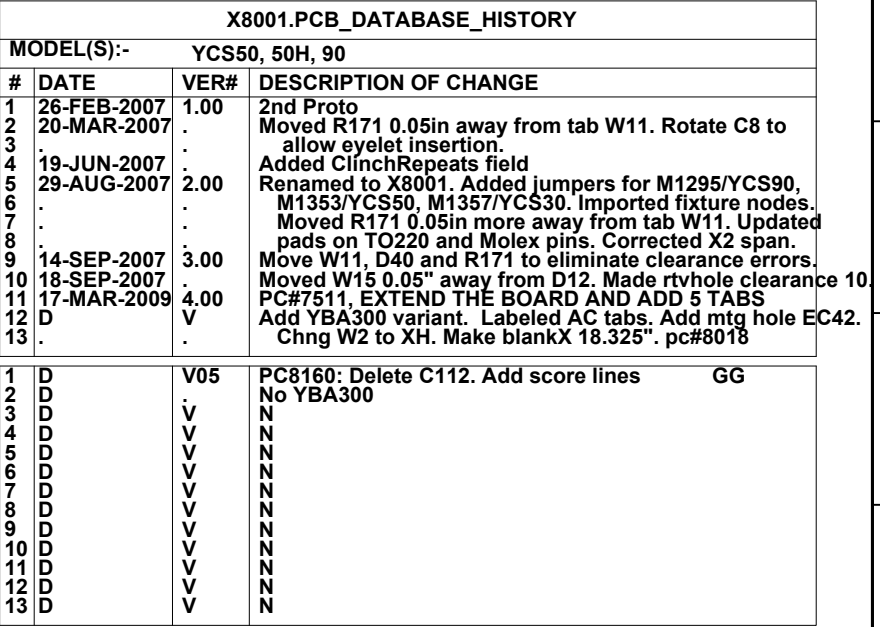


M1296			
MODEL(S):- YCS90			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	2007/06/06	1.00	FIRST DESIGN
2	12-FEB-2008	1.01	REVISION PER PC7456
3	09-JUN-2008	1.02	PC7393: CHANGE R49 FROM 39K TO 43K #4878
4	14-JAN-2010	V02	CHANGE TO SCORE
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

PRODUCTION NOTES

1. APPLY RTV TO C64, C54, C66 AND C67.

	C86 and C87	
PCB#	Value	Part#
M1295	470U	5957
M1353	330U	6574



	To_PowerAmp	
W29:A	9 1	RAW
W29:B	9 2	FIL
W29:C	9 3	FIL+
W29:D	9 4	HVCT
W29:E	9 5	GND
W29:F	9 6	+225V
W29:G	9 7	SPLITTER
W29:H	9 8	OUTX-F_CT
W29:I	9 9	SCREEN

	Product YCS50/90 Power Supply		
	Power Supply	PCB# X8001	Sheet 1 of 1
	Date: Thu Sep 15, 2011	Rev: V05	YsType:
	Filename: X8001V05sch.sch2002		



BEC
LOC

YCS90

SCORE

BlankSize - 17000x10800



SOCKET

SOCKET UPSIDE DOWN

NORMAL

NORMAL LARGE

SOCKET WITH DIRECTION

TAB

SCORE

SEE LAYOUT DOCUMENTATION





SEE LAYOUT DIAGRAM



PRODUCTION NOTES X8001(M1295, M1353)

1. BEFORE CLINCHING, BREAK PANEL IN 2 ALONG LINE WHERE INDICATED.

2. B.A. Variant parts:

BOARD	C86	C87
M1295	#5857, 470U	#5857, 470U
M1353	#6574, 330U	#6574, 330U

3. B.A. WILL CUT TWO OTHER JUMPERS

M1295

M1295		YCS90
M1353		YCS50/50H

M1353

M1295		YCS90
M1353		YCS50/50H

8799

TO220
Device

3692

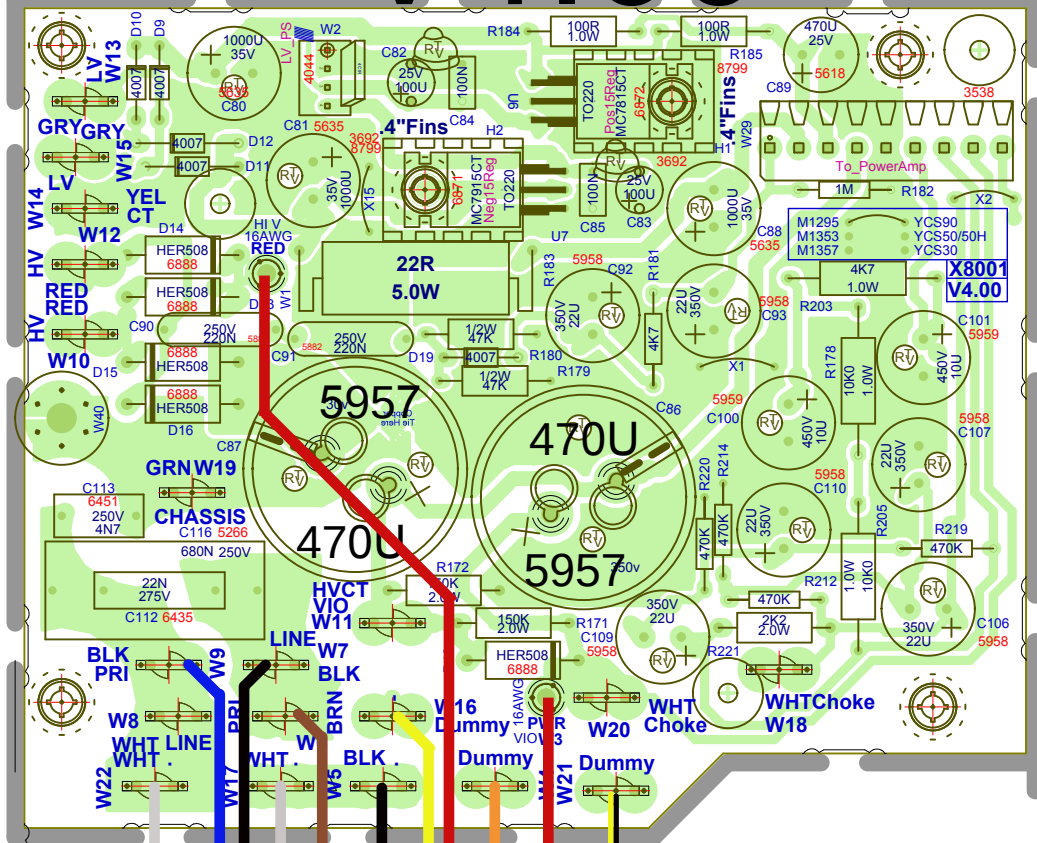
PCB

TO220+3692+8799-MTG

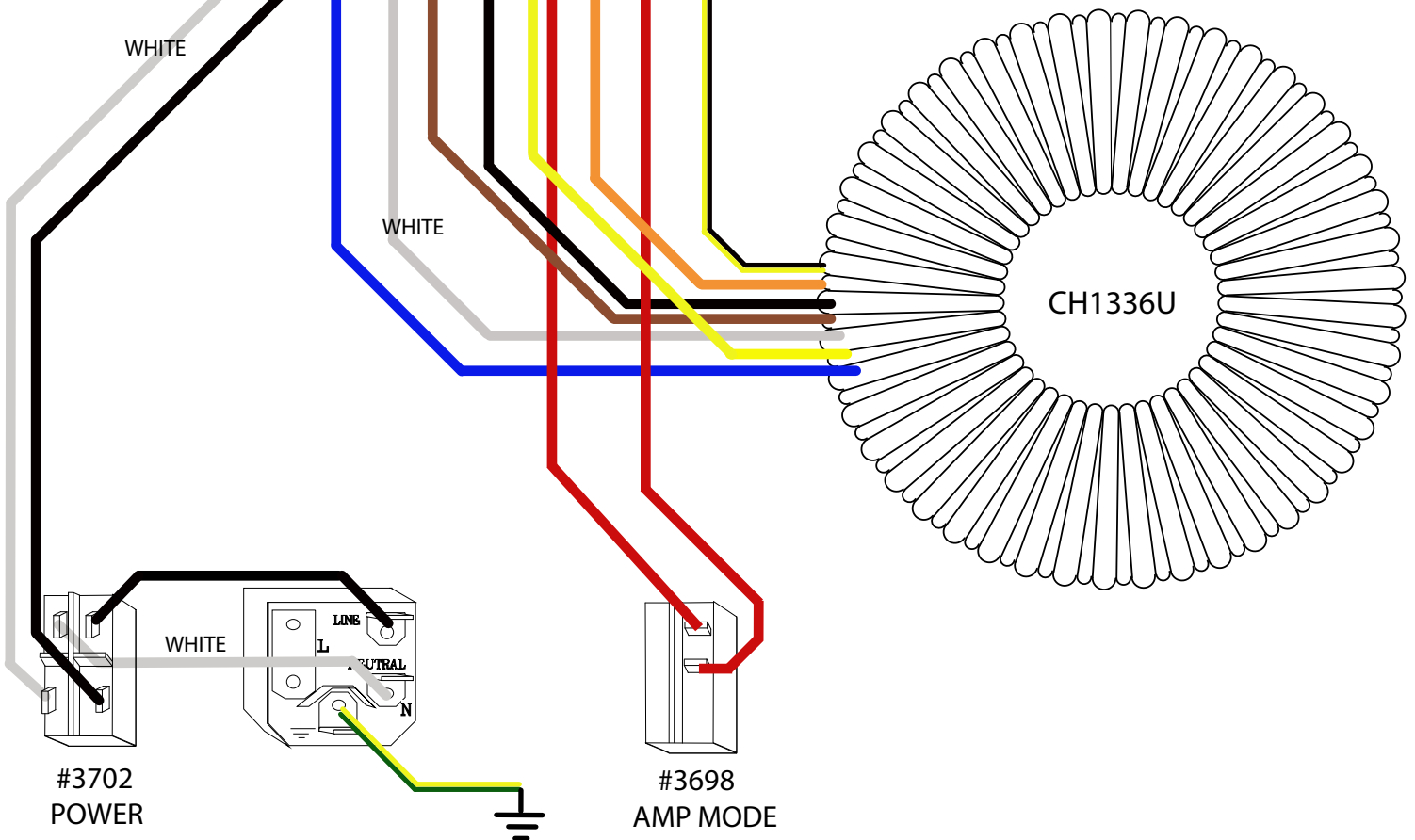
X8001.PCB_DATABASE_HISTORY			
MODEL(S):- YCS50, 50H, 90			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	26-FEB-2007	1.00	2nd Proto
2	20-MAR-2007	.	Moved R171 0.05in away from tab W11. Rotate C8 to allow eyelet insertion.
3	.	.	Added ClinchRepeats field
4	19-JUN-2007	.	Renamed to X8001. Added jumpers for M1295/YCS90, M1353/YCS50, M1357/YCS30. Imported fixture nodes.
5	29-AUG-2007	2.00	Moved R171 0.05in more away from tab W11. Updated pads on TO220 and Molex pins. Corrected X2 span.
6	.	.	Move W11, D40 and R171 to eliminate clearance errors.
7	.	.	Moved W15 0.05" away from D12. Made rtvhole clearance 10.
8	14-SEP-2007	3.00	PC#7511, EXTEND THE BOARD AND ADD 5 TABS
9	18-SEP-2007	.	10.
10	17-MAR-2009	4.00	11.
11	2009/02/17	4.01	12.
12	.	.	13.
13	.	.	Chng W2 to XH. Make blankX 18.325". pc#8018

1	D	V05	PC8160: Delete C112. Add score lines GG
2	D	.	No YBA300
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

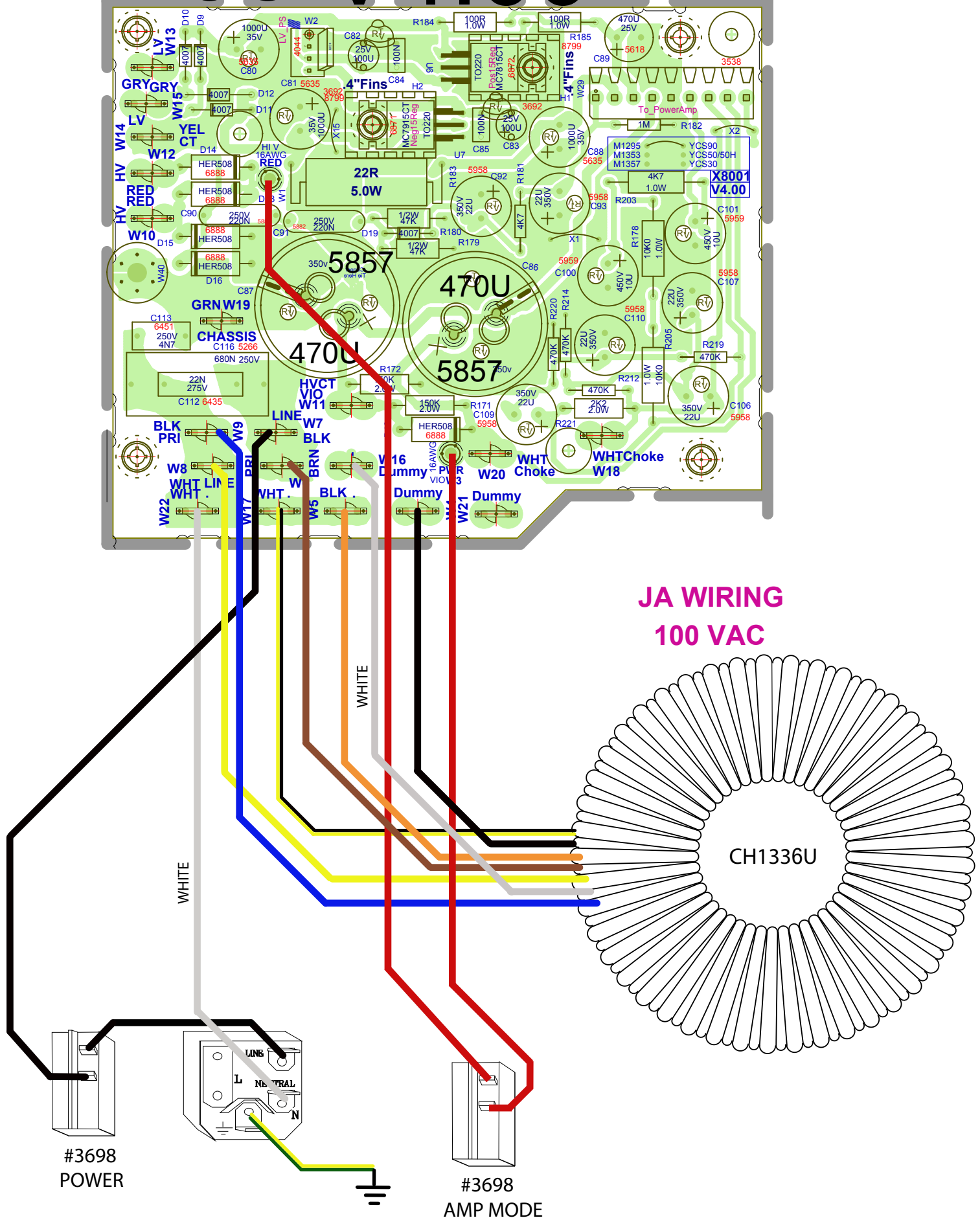
M1295 V4.00 YCS90



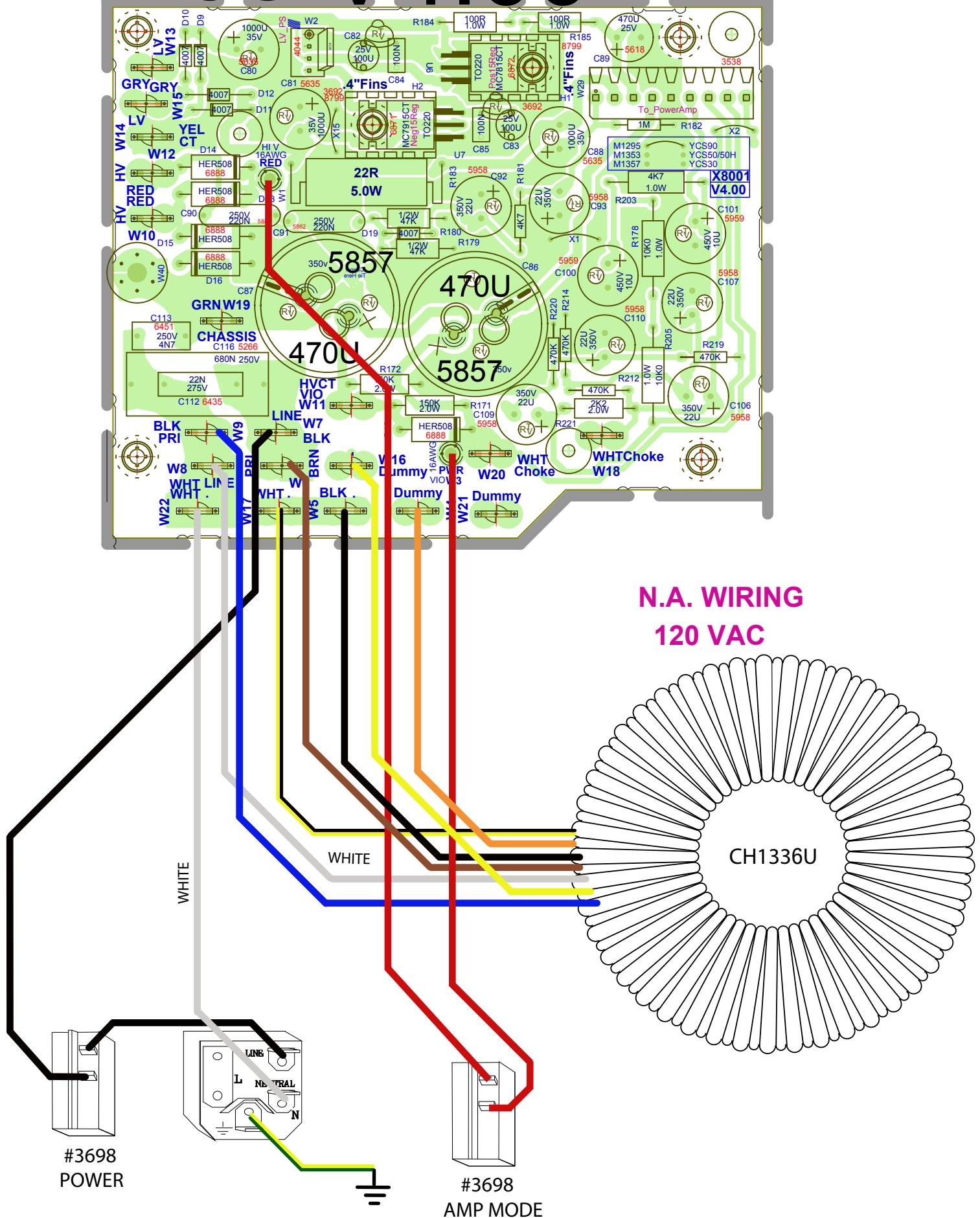
CE WIRING
240 VAC

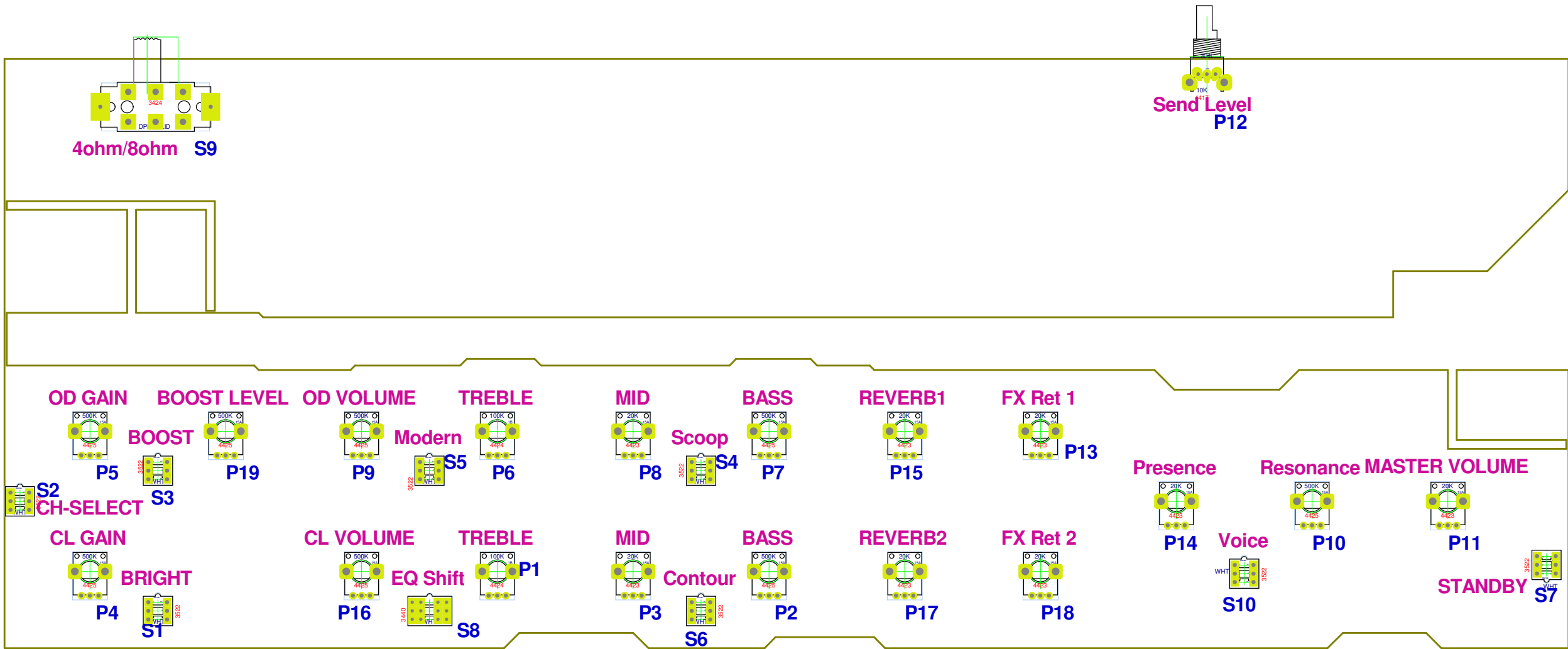


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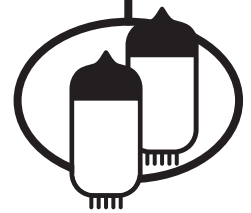


○





SERVICE BULLETIN



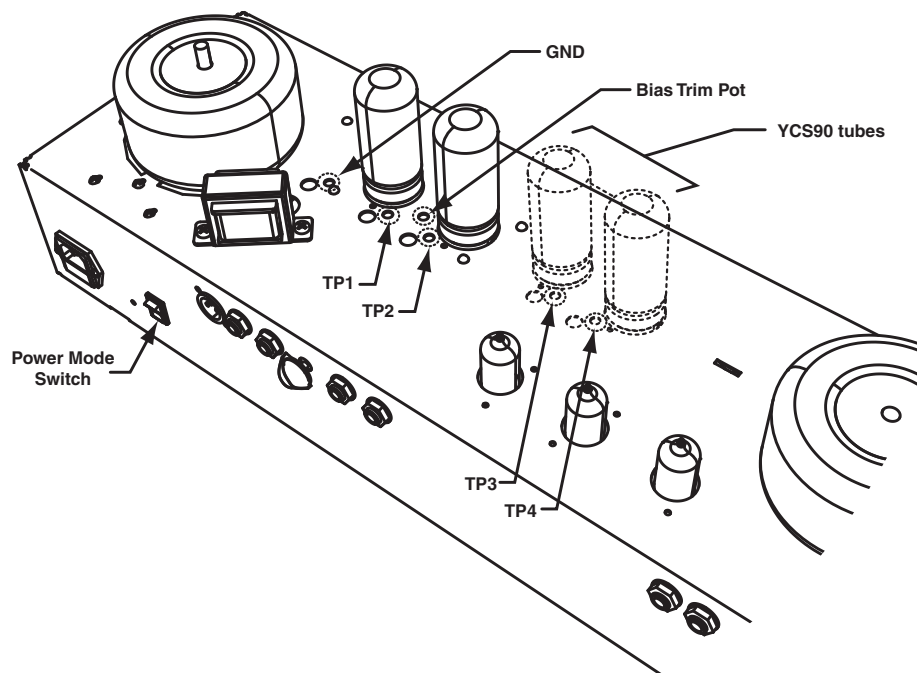
Tube Bias Adjustment

1. Adjust the amplifiers bias when in the 50W mode (YCS50/H) or 90W mode (YCS90). A speaker/load should be connected at all times when amplifier is powered.
2. Turn the amplifier on; allow it to warm up for 2-3 minutes.
3. Once the amplifier is warmed up, make sure the amplifier is out of Standby mode. Do not apply any input stimulus (signals etc.).
4. Using a meter set to measure mV DC, attach the negative (black) probe to the GND. Place the positive (red) probe on TP1
5. Adjust the Bias Trim Pot until you measure 75mv DC between GND and TP1.

Products Affected

Traynor YCS50,
YCS50H & YCS90

Measure the bias between GND and TP2. It should also measure as 75mv DC. (For the YCS90 the measurements should read 75mV on TP1, TP2, TP3 and TP4 which signifies that all tubes are matched).



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Yorkville Sound Inc.
4625 Witmer Industrial Estate
Niagara Falls, New York
14305 USA

Printed in Canada

YCS90 Parts List 8/14/2012

YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
6397	JWELED PILOT LAMP AMBER REG V1	1	3498	1/4" JCK PCB MT HORZ	5	4843	1/4W 470K 5% T&R RES	9
5906	RED 3MM LED 1V9 20MA 4SPCER T&R	1	3921	1/4" JCK PCB MT VERT STER RT SWT	2	4844	1/4W 1M 5% T&R RES	6
6398	RED 5MM LED 1V5 20MA HIGH EFF	1	3888	12" RCA SINGLE CABLE 0'90" BLACK	1	4845	1/4W 2M2 5% T&R RES	3
6399	YEL 5MM LED 1V5 20MA HIGH EFF	1	3902	72" RCA DUAL CABLE 0'90" RED/WHITE	1	3664	13.0" 8C-26AWG RIB 1 W/LCK HDR 098"	2
5907	YEL 3MM LED 1V9 20MA 4SPCER T&R	1	6541	RCA JACK SNGL PCB MT HOR K901	4	6615	13.0" 8C-22AWG RIBBON CABLE .156"	1
5908	GRN 3MM LED 1V9 20MA 4SPCER T&R	1	3923	XLR MALE PCB MT HORZ MTHOLE-V SNAP	1	6616	6.0" 9C-22AWG RIBBON CABLE .156"	1
6825	1N4148 75V 0A45 DIODE T&R	16	3451	EYELET SMALL 0.089 OD PLATED	19	3535	10.0" 9C-26AWG RIB 1 W/LCK HDR 098"	2
6888	HER508 1000V 3A0 DIODE ULTRAFAS	5	TFS-2B	TRAYNOR DUAL FOOTSWCH 10" CORD-BULK	1	3700	RELAY 2C 01AMP DC24 015MA PC-S	2
6438	1N4007 1000V 1A0 DIODE T&R	5	2472	T3.15A GDA BUSSMANN 5X20MM FUSE	1	3537	ACC# 4EB3C1B LONG REVERB	1
6437	1N5237B 8V2 0W5 ZENER 5% T&R	1	8451	10" STRAP HANDLE,BLACK METAL ENDCAP	1	8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	2
6450	1N5242B 12V0 0W5 ZENER 5% T&R	2	3692	HEATSINK TO-220 W/O TAB BLK ANODIZE	2	8799	#6 X 1/4 PAN PH TYPE B JS500	2
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	1	3438	PWR INLET & FUSE DRAWER	1	8753	#10 X 1/2 PAN QUAD TY A JS500 BLACK	21
6871	MC7915CT TO220 N 15V0 REG V2	1	3552	NYLON SPRING CLAMP	4	8727	#10 X 1" PAN PH TYPE A JS500 BLACK	8
6872	MC7815CT TO220 P 15V0 REG V1	1	3810	4" NYLON CABLE TIE	8	8862	#10 X 1 1/2 PAN PH TYPE A JS500	9
5101	BC550C TO92 NPN TRAN T&R TB	4	3676	8 CIR CABLE HOLDER .098	2	8822	6-32 X 1/4 PAN PH MS ZN C/W SPLIT_W	5
5102	BC560C TO92 PNP TRAN T&R TB	4	3674	9 CIR CABLE HOLDER .098	2	8832	6-32 X 1/4 PAN PH TAPTITE JS500	41
5103	MPSA06 TO92 NPN TRAN T&R TA	4	3583	8 CIR WAFER W/LCK 0.1"	2	8801	6-32 X 3/8 PAN PH TAPTITE JS500	2
5104	MPSA56 TO92 PNP TRAN T&R TA	1	4004	9 CIR WAFER W/LCK VT 0.1"	2	8829	6-32 X 3/8 FLAT PH TAPTITE BO#C HEA	16
5108	2N5401 TO92 NPN TRAN T&R TA	1	3538	24 PIN BREAKAWAY LOCK .156	1,152	8949	10-32 X 3/4 IND HEX M/S BLACK OXIDE	8
5119	J111 TO92 NCH JFET T&R TC	4	8430	KNOB, CHICKEN BEAK, BLACK, POINTER	18	8843	10-32 X 1 1/8 FLAT QUAD MS JS500	2
6882	TL072CP IC FET DUAL OP AMP	7	8431	KNOB BUGDIE-BEAK	1	8780	5/16-18 X 3 3/4 CARRIAGE BOLT FT ZN	2
5408	.47P 100V 10%CAP T&R BEAD NPO	1	8633	KNOB ROUND PUSHBUTTON 1/4" BLACK	8	8770	1/4-20 X 1 5/16 TRUSS PH MS JS500	10
5199	100P 100V 2%CAP T&R RAD CER.2NPO	2	3428	8 3/18 SJT AC LINE CORD REMOVABLE	1	8657	6-32 X 3/8" HEX SPACER ALUMINUM	17
5197	220P 100V 2%CAP T&R RAD CER.2NPO	8	8269	TRAYNOR LOGO PLASTIC W/ BLK INSERT	1	3865	1/2 PLASTIC HEX SPACER #6	14
5277	220P 200V 5%CAP T&R RAD CER.2NPO	1	8800	6-32 KEPS NUT ZINC	1	7083	12" 16R 60WPGM CELEST CENTURY VINTG	2
5194	470P 1000V 10%CAP T&R RAD CER.2Y5P	2	8604	10-32 T NUT	6	8482	3/8 1D FLAT WASHER	1
5416	470P 50V 10%CAP T&R BEAD NPO	1	8898	1/4-20 CAGE NUT C79 98142027	10	8488	3/8 INT TOOTH LOCKWASHE ZINC	1
5816	680P 100V 5%CAP T&R RAD CER.2NPO	1	9977	5/16-18 NYLON INSERT LOK NUT ZN CLR	2	8818	3/4 OD X 3/8 ID X .080 THICK WASHER	4
5206	.1N 400V 5%CAP T&R RAD .2FLM	9	8797	5/16-18 KEPS NUT JS500	2	8817	#10 FLAT WASHER FOR 3/16" BOLT	33
5273	.1N5 200V 5%CAP T&R RAD CER.2NPO	1	4597	22AWG STRAN TC WIR JMP	5	3440	4PDT MINI VERT ALT SWITCH	1
5208	.2N2 400V 5%CAP T&R RAD .2FLM	4	4599	22AWG SOLID SC WIR T&R JMP	85	3424	DPDT SLID SW PCMT H GOLD CONTACTS	1
5426	.2N2 50V 10%CAP T&R BEAD Y5R	4	4703	2.0W 2R 5% T&R RES	4	3522	DPDT MINI PC VERT SNP ALT	8
5275	.3N3 100V 5%CAP T&R RAD .2FLM	2	4618	1/2W 22R 5% T&R RES	1	3698	SPST ROKR SW QUIK 180" AC PWR BL/BL	2
5209	.4N7 250V 5%CAP T&R RAD .2FLM	4	4709	5.0W 22R 5% BLK RES	1	12AX7BLK	12AX7 DUAL TRIODE PREAMP TUBE	3
6451	.4N7 250V 20%CAP BLK Y 10MM AC	1	4817	1/4W 47R 5% T&R RES	4	6L6BULK	6L6G VACUUM TUBE BULK	4
5272	.6N8 100V 5%CAP T&R RAD .2FLM	1	2019	1/8W 100R0 1%FLAME PROOF T&R RES	2	3732	9 PIN PC MOUNT TUBE SOCKET BE	3
5204	.10N 100V 10%CAP T&R RAD .2FLM	4	4735	1.0W 100R 5% T&R RES	2	3984	8 PIN PC MOUNT TUBE SOCKET BE	4
5834	.10N 400V 10%CAP BLK RAD POLY FLM	4	4852	1/4W 100R 5% T&R RES	1	3731	TUBE RETAINER	4
5205	.15N 100V 10%CAP T&R RAD .2FLM	2	4859	1/4W 150R 5% T&R RES	1	1403	YCS100H TOROID COVER VR 122 X 65	1
5224	.47N 100V 10%CAP T&R RAD .2FLM	3	4857	1/4W 220R 5% T&R RES	1	1404	TOROID COVER VR 130 X 70	1
5841	.47N 250V 10%CAP RAD POLYFILM BULK	1	4821	1/4W 470R 5% T&R RES	2	CH1336M	YCS90 OPT	1
5226	.68N 100V 5%CAP T&R RAD .2FLM	1	5019	1/4W 620R 5%MINI T&R RES	6	CH1336U	YCS90 XFMR	1
5212	100N 63V 5%CAP T&R RAD .2FLM	18	4822	1/4W 820R 5% T&R RES	5			
5865	100N 250V 10%CAP BLK RAD POLY FLM	2	4823	1/4W 1K 5% T&R RES	5			
5229	150N 63V 10%CAP T&R RAD .2FLM	2	4913	1.0W 1K 5% T&R RES	1			
5231	220N 63V 5%CAP T&R RAD .2FLM	1	4585	1/4W 1K2 5%MINI T&R RES	1			
5882	220N 250VDC 10%CAP BLK RAD PLY FLM	2	4824	1/4W 1K5 5% T&R RES	1			
5233	330N 63V 5%CAP T&R RAD .2FLM	3	5005	2.0W 1K8 5% T&R RES	4			
5234	470N 63V 10%CAP T&R RAD .2FLM	2	4631	1/2W 2K 5% T&R RES	1			
5266	680N 250V 20%CAP BLK X2 30MM AC	1	4705	2.0W 2K2 5% T&R RES	2			
5254	.1U 63V 20%CAP T&R 4X7MM .2EL	1	4847	1/4W 2K2 5% T&R RES	2			
5257	.2U2 63V 20%CAP T&R RAD .2EL	3	6104	1/4W 2K2 5%MINI T&R RES	3			
5629	.10U 160V 20%CAP BLK 10X13MM EL	1	4714	1/4W 2K21 1% T&R RES	1			
5959	.10U 450V 20%CAP BLK EL	3	4850	1/4W 3K9 5% T&R RES	1			
5631	.22U 50V 20%CAP T&R 6X7MM .2EL	11	4681	1.0W 4K7 5% T&R RES	2			
5958	.22U 350V 20%CAP BLK 13X25 EL	6	4827	1/4W 4K7 5% T&R RES	10			
5961	.33U 16V 20%CAP T&R RAD .2IN NP	10	4828	1/4W 6K8 5% T&R RES	2			
5267	100U 25V 20%CAP T&R RAD .2EL	2	4863	1/4W 8K2 5% T&R RES	1			
5879	100U 16V 20%CAP T&R 8X7MM .2EL	1	4829	1/4W 10K 5% T&R RES	22			
5957	470U 350V 20%CAP BLK 30X50 EL	2	5031	1.0W 10K0 5% T&R RES	2			
5618	470U 25V 20%CAP BLK 10X15MM EL	1	6116	1/4W 10K0 1%MINI MF T&R RES	8			
5635	1000U 35V 20%CAP BLK RADIAL ELECT	3	4830	1/4W 15K 5% T&R RES	3			
4417	.10K 5B LIN 9MM HORIZONTAL P28	1	4831	1/4W 18K 5% T&R RES	1			
4423	.20K 15AAUDIO 9MM P32	8	4832	1/4W 22K 5% T&R RES	5			
4424	100K 1B LIN 9MM P32	2	4902	1/4W 24K 5% T&R RES	4			
4425	500K 15AAUDIO 9MM P32	8	4833	1/4W 27K 5% T&R RES				
4520	.10K TRIM POT	1	4840	1/4W 33K 5% T&R RES	2			
3976	SNAP ON 0.843" INSULATING BUSHING	3	4853	1/4W 39K 5% T&R RES	1			
6563	CHOKE:5000UH 100MA	1	4878	1/4W 43K 5% T&R RES	2			
8522	RUBBER BUMPER WITH WASHER -SMALL-	4	4634	1/2W 47K 5% T&R RES	2			
8570	CORNER,2 LEGS NOTCED BLACK POWDER C	8	4834	1/4W 47K 5% T&R RES	7			
3467	CLIP 205X032 14-16AWG DISC/INSUL	2	4837	1/4W 82K 5% T&R RES	4			
3478	CLIP 205/187X032 18-22AWG DISCO/INS	5	4838	1/4W 100K 5% T&R RES	14			
3489	CLIP 250X032 18-22AWG DISCO/INSL	2	4776	1/4W 113K 1% T&R RES	4			
3490	CLIP 250X032 14-16AWG DISCO/INSL	1	4851	1/4W 120K 5% T&R RES	6			
3491	CLIP 205/187X020 18-22AWG DISCO/INS	4	4790	2.0W 150K 5%10MM BODY T&R RES	2			
3494	CLIP 205/187X020 14-16AWG DISCO/INS	2	4849	1/4W 180K 5% T&R RES	1			
3601	RING TERMINAL 16AWG WIRE & #8 SCREW	1	4668	2.0W 220K 5%10MM BODY T&R RES	1			
2280	280 PHONO PLUG	1	4841	1/4W 220K 5% T&R RES	13			
3450	1/4" JCK PCB MT ALL-GOLD SKT	3	6145	1/4W 249K 1%MINI T&R RES	4			